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PATENTTI TOIMISTO

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VIITTEENNE:
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OUR REFERENCE:
METSO 23 PCT/H1TELEFAX AND MAIL
(3 PAGES)Re.: International Patent Application No. PCT/FI03/00588
in the name of Metso Paper, Inc, et alWe refer to the written opinion of 5 June 2004 and present
following amendments and remarks.New page 8 replaces the earlier page 8 and the new claim 1
replaces the earlier claim 1. Claim 1 has been amended in order
to take account the cited reference D1. The characterizing part
of the claim 1 has been clarified by adding words "on a frame".
The amendment is based on page 5, line 27 and the drawing.The invention is aimed to solving problems related on changing
the rolls of a calander as wells as the invention described in
D1. However, in D1 the calander utilizes two separate frames
whereby it needs two times so much space as the calander
according to the invention. The calander of D1 can not be used
for replacing existing machine calanders without changing the
lay-out of the paper making apparatus considerably since it does
not fit into the same space as the machine calander. This**SEPPO LAINE OY**PL 339 P.O.B. 339
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problem is solved by using a calander having a single frame. In a single frame calander the change of the rolls becomes very problematic and cumbersome. For this reason single frame softcalanders have not been useful. The invention overcomes this problem by mounting the roll pairs of the calander in a staggered fashion in the frame.

Since the D1 utilizes separate frames for each roll pair, it would not have been obvious to use staggered placing of the rolls in a single frame on basis of the D1. Further, D1 does not solve the problem of providing a calander having two pairs of rolls that can be placed in a very tight room, for example for replacing a machine calander.

D1 does not describe a calander having a single frame, whereby the invention is novel. D1 does not either solve the problem that the invention solves, whereby the invention described in the amended claim 1 involves inventive step.

On the basis of the above presented reasons it is respectfully solicited that the invention defined in the amended claims be considered novel and having inventive step, whereby we hope that a positive preliminary examination report can be issued.

Seppo Laine Oy

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Encls.: new page 8

What is claimed is:

1. A calender comprising

- 5 - at least two roll pairs formed by at least two rolls (8, 9; 14, 15) pairwise stacked above one another and so disposed mutually in regard to each other that in the successive pairs of rolls the distance between the center axes of the lower rolls (8, 14) of the roll pairs is smaller than the distance between the center axes of the respective upper rolls (9, 15), whereby the rolls (8, 9; 14, 10 15) as seen from their ends are staggered in a V-angled configuration so as to leave space therebetween for changing the rolls,

characterized in that

- 15 - said pairs of rolls (8, 9; 14, 15) are stairwise offset staggered on a frame (5) so as to locate the rolls at different height levels.

2. The calender of claim 1, **characterized** in that each roll pair of a calender nip comprises at least one soft roll (9, 14) and at least one heated hard roll (8, 15).

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3. The calender of claim 1 or 2, **characterized** in that the upper roll pair (14, 15) is entirely situated above the lower roll pair (8, 9).

4. The calender of claim 1 or 2, **characterized** in that at least the lower roll (14) of the upper roll pair (14, 15) is situated at least partially below the top level of the upper roll (9) of the lower roll pair (8, 9).

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5. The calender of any one of foregoing claims, **characterized** in that immediately upstream in front of at least one pair of rolls (8, 9 or 14, 15) is adapted a moisturizing/steaming device (11, 17).

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